

## Project C.L.E.A.N.



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## Team B.A.S.I.C.

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  - **Amanda Rollizo**  
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  - **Alisa Politano**  
Senior, Brooklyn  
Studio HS
- Representing:
- Wildlife  
Conservation Society
    - New York Aquarium
    - Girls for Planet Earth  
(Bronx Zoo)
  - Girl Scout Council of  
Greater New York

# The Big Picture...



Jamaica Bay

## Jamaica Bay

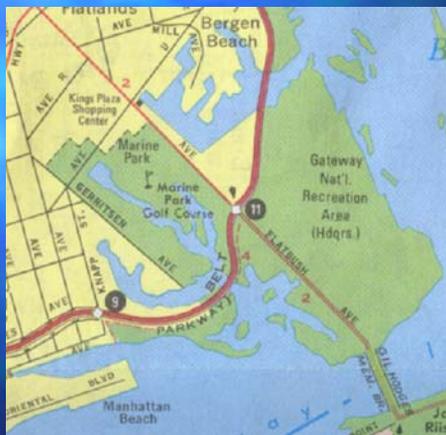
- Geographic area
- Human impact
- Wildlife habitat
- Disappearing marshes



# Wildlife of Jamaica Bay



# Our Field Site...



Gerritsen Creek

# Gerritsen Creek

- Location
- Recreational activities
- Economic impact
- Preliminary test data
  - Temperature
  - Salinity
  - pH
  - Dissolved Oxygen
  - Coliform Bacteria



# Recreational Activities



Wind Surfing



Jet Skiing



Water Skiing



## Recreational Activities



Canoeing



Swimming & Boating

## Economic Impact



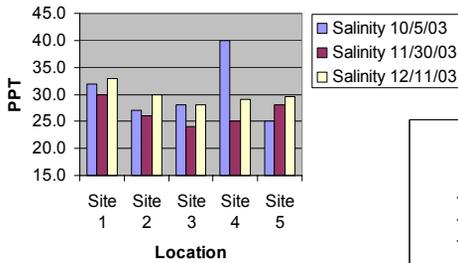
Commercial Fishing

Waterfront Restaurant



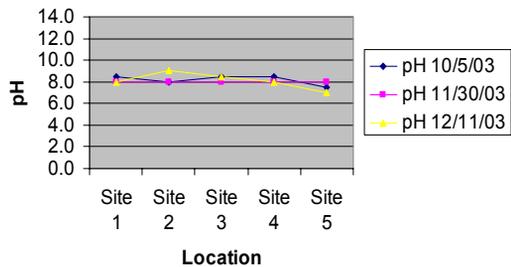
# Preliminary Test Data

**Salinity**



Site 1: Environmental Center  
 Site 2: The Canal  
 Site 3: Charlie's Beach  
 Site 4: The Point  
 Site 5: Behind Amusement Center

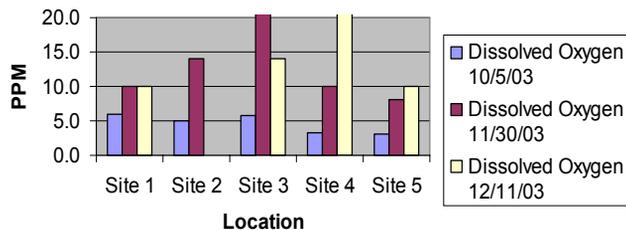
**pH Levels at Gerritsen Beach**



\* Army Corps of Engineers Ecosystem Restoration Report (8/03) concurs with high salinity levels

# Preliminary Test Data

**Dissolved Oxygen Levels At Gerritsen Beach**



Site 1: Environmental Center  
 Site 2: The Canal  
 Site 3: Charlie's Beach  
 Site 4: The Point  
 Site 5: Behind Amusement Center

## The Problem

- Human impact on the environment
- White Island
- Dangerous recreation?



## The Problem

### Abandoned Boats



## The Problem



**Abandoned Cars**

## The Problem



# The Problem



**ILLEGAL DUMPING**



# The Problem

## STORM



**D  
R  
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S**



## The Problem



Typical Storm Drain

## Strategies for Public Education



- Stencil the sewers
- Create and distribute literature
  - Public access to regulatory agencies
- Hold public educational workshops
  - School Groups
  - Organized Groups
  - Civic Groups/Community Members

# Strategies for Public Education



G.B. Cares Inc.,  
Friends of Marine Park/Gerritsen Creek

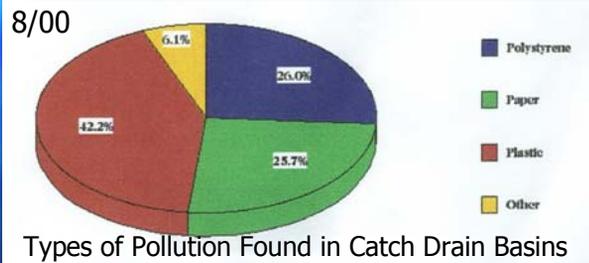
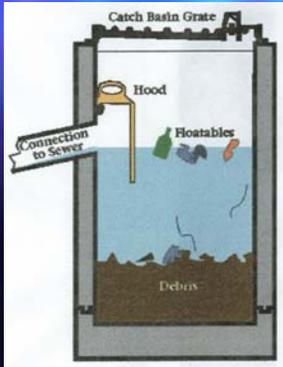
# Enforcement

- Install legible signs to:
  - Clean up after dogs
  - Alert swimmers of water conditions
  - Prohibit illegal dumping
- Petition for increased fines & reward incentives
- Routine patrols of parks by Police, Sanitation Departments, and U.S. Coast Guard



# Prevention & Maintenance

- Install hoods in the sewers
- Request regular cleaning of the catch drain basins



# Our Long Term Goals

- Dredge the creek
- Divert sewers into holding tanks
- Install new bulkheads at the end of each block



## Divert Sewers Into Holding Tanks



## New Bulk Heads...



# Help Prevent Erosion!

**Salt Marsh Erosion**



# Why We Care...



Why We Care...



Why We Care...



# Why We Care...



# Thank You!



- Wildlife Conservation Society
  - New York Aquarium
  - Bronx Zoo: Girls for Planet Earth

## Special Thanks:

Merryl Kafka, Melissa Carp, Kathleen Orloff, Stephanie Rollizo, Dan Cavanaugh, Joseph Foy & Michael Taylor (G.B. Cares), Jeanine Silversmith & The Girl Scout Council of Greater NY

